PCT

INTERNATIONAL SEARCH REPORT.



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 00000PCT7505	FOR FURTHER ACTION	as well a	see Form PCT/I as, where applicat		
International application No. PCT/JP 2004 / 016814	International filing date (day/n			ty Date <i>(day/month/yed</i> .11.2003	ar)
Applicant SEMICONDUCTOR ENE	RGY LABORATORY	CO., I	JTD.		•
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
This international search report consists	of a total of 3 sheets.			RECEIVE	
It is also accompanied by a	copy of each prior art documen	t cited in this re	port.	MAR. Ü 4 2005	b
Basis of the report With regard to the language, the language in which it was filed, un			basis of the inter	SE @	the
	ch was carried out on the basis of		of the internationa	d application furnished	to
b. With regard to any nucleot	ide and/or amino acid sequenc	e disclosed in th	he international a	pplication, see Box No.	. I.
2. Certain claims were foun	d unsearchable (See Box II).	•			
3. Unity of invention is lack	ing (See Box III).				
4. With regard to the title,			•		
the text is approved as sub					
the text has been established	ed by this Authority to read as f	ollows:			
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		1		, &	•
	,			2005. 3. 18	
·				E	l
	• •				
5. With regard to the abstract,					l
the text is approved as sub	mitted by the applicant.				
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.					
6. With regard to the drawings,					
a. the figure of the drawings to be p	published with the abstract is	Figure No	2		
as suggested by the a	applicant.	,			
as selected by this Authority, because the applicant failed to suggest a figure.					
as selected by this Authority, because this figure better characterizes the invention.					
b. none of the figures is to be	published with the abstract.			700	

Applicant's or agent's file reference

INTERI ONALSEARCHREPORT

Inte: Jonal application No. PCT/JP2004/016814

			·	
A. CLASSIFICATIONOF SUBJECT MATTER				
Int.Cl 7 G	09F9/00,H05B33/14,H01L29/786,H01	L21/288,H01L27/088		
According to	o International Patent Classification (IPC) or to both n	ational classification and IPC		
	DS SEARCHED			
	ocumentation searched (classification system followed by	• /		
Int.Cl 7 G	09F9/00,H05B33/10-33/28,H01L29/7	86,H01L21/288,H01L21/768,E	101L27/088	
Documentati	ion searched other than minimum documentation to the	extent that such documents are included in the	he fields searched	
Applicati	Utility Model Gazette 1922-1996, Japane ons 1971-2005, Japanese Registered Util ng the Utility Model 1996-2005		lity Model apanese Gazette	
	ta base consulted during the international search (name	of data base and, where practicable, search te	rms used)	
	·			
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT		•	
Category*	Citation of document, with indication, where a	ppropriate of the relevant passages	Relevant to claim No.	
Catogory		ppropriate, or the reference passages	Refevant to claim 140.	
X	JP 7-312290 A (NEC CORPORA	TION) 1995.11.28	1,12	
Y	paragraph [0037]-[0047] ,	· · · · · · · · · · · · · · · · · · ·	2-11,13-47	
	& US 5747930 A1 & EP 6847	53 A1	·	
Y	JP 2003-058077 A (FILTE PHO	TO FILM CO. LTD.)	2-11,13-47	
_	JP 2003-058077 A (FUJI PHOTO FILM CO., LTD.) 2-1			
	whole document	·		
	(family:none)		;	
Y	JP 2000-259099 A (SEIKO EP	SON CORPORATION)	10	
	2000.09.22			
	paragraph[0028],[0040], figs.3,8			
	& US 6614053 B1 & CN 1269520 A & TW 498553 B			
Y	JP 2000-269336 A (TOSHIBA	CORPORATION)	22-35	
	2000.09.29	-		
	whole document			
	& TW 449818 B			
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "T" later document published after the international filing date or "A" document defining the general state of the art which is not priority date and not in conflict with the application but cited to				
considered to be of particular relevance understand the principle or theory underlying the invention "E" earlier application or patent but published on or after the inter- "X" document of particular relevance; the claimed invention cannot				
national filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other.				
"O" document referring to an oral disclosure, use, exhibition or other be considered to involve an inventive step when the document is combined with one or more other such documents, such				
"P" document published prior to the international filing date but later "&" document member of the same patent family				
Date of the actual completion of the international search Date of mailing of the international search report				
07.02.2005		01. 3. 2005		
Name and mailing address of the ISA/IP Authorized officer				
Japan Patent Office Hajime Kitagawa				
	umigaseki Chivoda-ku Tokyo 100-8915 Japan	Telephone No. +81-3-3581-1101 F	vt 3274	

INTER TIONALSEARCHREPORT

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

International application No.
PCT/JP2004/016814

			PCT/JP2004/016814		
C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.		
Y .	JP 2001-281438 A (SEIKO EPSON CORPORATION) 2001.10.10 paragraph [0039],[0054],figs.1-12 (family:none)		22-35		
Y	JP 2003-050405 A (MATSUSHITA ELECTRIC INDUSTRIAL Co., LTD.) 2003.02.21 paragraph [0078]-[0088], figure 14,15 & US 2002/056838 A1 & EP 1209748 A1 & CN 1353329 A		31-35		
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PATENT COOPERATION TREATY

PCT

INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/JP 2004 / 016795	International filing date (day/ 05.11.20	
Applicant SEMICONDUCTO	R ENERGY LABOR	RATORY CO., LTD.
This international search report has been p to Article 18. A copy is being transmitte		earching Authority and is transmitted to the applicant according
This international search report consists It is also accompanied by a	of a total of sheets copy of each prior art documer	THE COLLINS
Basis of the report a. With regard to the language, th	e international search was car	urried out on the basis of the haternational application in the
language in which it was filed, un the international sear this Authority (Rule	ch was carried out on the basis	this item. s of a translation of the international application furnished to
	ide and/or amino acid sequend d unsearchable (See Box II).	nce disclosed in the international application, see Box No. I.
3. Unity of invention is lack	•	
4. With regard to the title, the text is approved as sub	mitted by the applicant.	
· =	ed by this Authority to read as	follows:
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5 With record to the about	·	
may, within one month from	d, according to Rule 38.2(b), by	by this Authority as it appears in Box No. IV. The applicant ternational search report, submit comments to this Authority.
6. With regard to the drawings,		
==	applicant. uthority, because the applicant uthority, because this figure bet	

Form PCT/ISA/210 (first sheet) (January 2004)



INTERNALIONALSEARCHREPORT

International application No.

			PCT/JP20	04/016795
A. CLA	SSIFICATIONOFSUBJECTMATTER		· · · · · · · · · · · · · · · · · · ·	
Int.Cl 7 G	02F 1/1368, G02F 1/1339 H01	L 21/288		
According to	o International Patent Classification (IPC) or to both n	ational classification an	id IPC	_
	DS SEARCHED			
	ocumentation searched (classification system followed by			
Int.Cl ⁷ G	02F 1/1368, G02F 1/1339 500, H01	F 51/588		•
	ion searched other than minimum documentation to the			
Applicati	Utility Model Gazette 1922-1996, Japane lons 1971-2005, Japanese Registered Util ag the Utility Model 1996-2005	se Publication of ity Model Gazette	Unexamined Uti 1994-2005, J	lity Model apanese Gazette
	ata base consulted during the international search (name of	of data base and, where p	oracticable, search ter	ms used)
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		·		
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a	opropriate, of the releva	ant passages	Relevant to claim No.
Y A				1-6 7-12
	[0036], [0039] (Family Non	e)		
Ý	JP 2003-315829 A(SEIKO EPS 2003.11.06, claim 15, para			1-6
	Fig.8 & US 2004005739 A		hairinan mindu	
				· .
		•		
			-	
·	·		·	•
Furthe	er documents are listed in the continuation of Box C.	See patent i	family annex.	
.	categories of cited documents:			ternational filing date or
conside	ent defining the general state of the art which is not tred to be of particular relevance	understand the p		he application but cited to derlying the invention
nationa	application or patent but published on or after the inter- l filing date	be considered n	ovel or cannot be o	claimed invention cannot considered to involve an
is cited	nt which may throw doubts on priority claim(s) or which to establish the publication date of another citation or other reason (as specified)	"Y" document of part		claimed invention cannot
"O" docume means	ent referring to an oral disclosure, use, exhibition or other	combined with		step when the document is such documents, such a skilled in the art
	ent published prior to the international filing date but later e priority date claimed	"&" document membe	er of the same paten	t family
Date of the actual completion of the international search Date of mailing of the international search report				
1 5. 2. 2005				
Name and m	ailing address of the ISA/JP	Authorized officer		2X 3411
Japan Patent Office		YAMAGUCHI	,Hiroyuki	

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3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan